

SAWYER TOOL MFG. Co.

Pittsburg, Mass., U. S. A.



FINE TOOLS





CATALOG "G"



ILLUSTRATED PRICE LIST

OF

FINE TOOLS

AND

HARDWARE SPECIALTIES

MANUFACTURED BY THE

SAWYER TOOL MFG. Co.

(INCORPORATED)



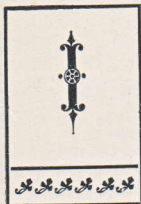
FITCHBURG, MASS.,

U. S. A.

TAKE NOTICE—The prices and lists in this Catalog supersede all previous editions.

TO OUR FRIENDS

The Dealers and Users of Fine Tools.



IN presenting our Catalog for 1904 we take the opportunity of thanking you for your generous patronage which has enabled us to materially increase our business and has proven to us that our efforts to please you are meeting with success.

We are firm believers of furnishing only goods made as they should be, by **skilled mechanics** and **improved machinery**, striving at all times to improve the quality of our product.

In reviewing the past we find that the difficulties we have met and overcome, have amply repaid us for the time and expense involved.

One of the most difficult things which we have accomplished is the matter of **properly** hardening Square Blades and Rules. This has **passed** the experimental stage with us and to-day we are producing only **hardened** and **tempered** work in this line.

In the several new tools which we list you will find goods of **exceptional merit**, and in taking them up for consideration you may rest assured of one point: they are the **best** that are produced. We do not propose to rest on what we **have done**, but **continue** in our efforts toward perfection.

Soliciting a percentage of your business, we are

Very truly yours,

SAWYER TOOL MFG. CO.,

FITCHBURG, MASS., U. S. A.

INFORMATION.

In ordering give **number** and **size** of tool.

Unknown parties, or those not having a commercial rating should remit with their order or give satisfactory references.

When goods are ordered shipped C. O. D., 20 per cent of the amount must be remitted with the order and the charges of remitting the money by express will be added. **Cash** with the order will **save** this extra expense.

All goods are F. O. B. Fitchburg.

In ordering state with **EACH** order **HOW** the goods are to be sent, whether by freight, express or mail.

We do not hold ourselves responsible for tools that have been damaged by being stamped or otherwise mutilated.

We prefer to have you order our tools through your **local dealer**, and it will be to **your advantage** to do so, but in places where you are unable to do this send your order direct to the factory.

We place in the box with each tool the following warrant:

OUR GUARANTEE.

WE WARRANT THIS TOOL TO BE ACCURATE. ANY TOOL, MADE BY US, FOUND TO BE DEFECTIVE WILL BE CHEERFULLY REPLACED UPON RECEIPT OF THE SAME AT OUR FACTORY.

SAWYER TOOL MFG. CO., Fitchburg, Mass., U. S. A.

Table of Graduations.

ENGLISH MEASURE.

The following graduations apply to our rules Nos. 18, 19, 21, 25, 26.

No. 1 Graduation.

1st corner	.....10, 20 50, 100
2d "	.....12, 24, 48
3d "	.....16, 32, 64
4th "	.....14, 28

No. 2 Graduation.

1st corner	.....10, 20, 50, 100
2d "	.....12, 24, 48
3d "	.....16, 32, 64
4th "	.....8

No. 4 Graduation.

1st corner	.....64
2d "	.....32
3d "	.....16
4th "	.....8

No. 7 Graduation.

1st corner	.....64
2d "	.....32
3d "	.....16
4th "	.....100

No. 8 Graduation.

1st corner	.....48
2d "	.....12
3d "	.....8
4th "	.....32

No. 10 Graduation.

1st corner	.....32
2d "	.....64

No. 11 Graduation.

1st corner	.....64
2d "	.....100

No. 12 Graduation.

1st corner	.....50
2d "	.....100

No. 15 Graduation.

1st corner	.....10
2d "	.....20
3d "	.....50
4th "	.....100

No. 16 Graduation.

1st corner	.....32
2d "	.....64
3d "	.....50
4th "	.....100

Heavy Hardened Rules.

No. 25.



The favor with which our **Hardened Blades** have been received and the numerous calls for a rule of similar hardness has induced us to offer our line of heavy hardened rules.

These rules vary in thickness from .060" to .095" and in width from $\frac{1}{2}$ " to $1\frac{1}{2}$ " in proportion to their length, are **hardened throughout** and are consequently very desirable, the corners remaining sharp and true.

They are graduated on our improved dividing engines and have the perfection of finish and accuracy for which our tools have become so well known.

Prices, No. 25.

$6\frac{1}{2}$ c. m.	$2\frac{1}{2}$ inch	
10	4	\$0.60
15	6	.75
25	9	.90
30	12	1.25
45	18	1.50
60	24	2.50
		3.50

These rules are also furnished in Metric or English and Metric graduation at the above prices.

SAWYER TOOL MFG. CO.

Spring Tempered Rules.

No. 18.

All Rules are Standard Widths and Thicknesses.



Prices, No. 18.

No. 4 Graduation.

1 inch	\$0 15	12 inch	\$1.15
2 " .....	.20	18 "	2 00
3 " .....	.30	24 "	2 50
4 " .....	.40	36 "	4.00
6 " .....	.60	48 "	7 00
9 " .....	.90		

Prices, No. 18.

Nos. 1, 2, 7, 8, 15 and 16 Graduations.

1 inch	\$0.20	12 inch	\$1.25
2 " .....	.25	18 "	2.00
3 " .....	.35	24 "	2.50
4 " .....	.45	36 "	4.00
6 " .....	.65	48 "	7.00
9 "	1.00		

Narrow Spring Tempered Rules.

No. 21.



These rules will be found convenient for measuring depths of cavities, holes, etc. They are 3-16 of an inch wide, No. 18 gauge, and graduated on one edge of each side only. Furnished in Nos. 10, 11 and 12 graduation.

Prices, No. 21.

3 inch	\$0.35	9 inch	\$1.00
4 " .....	.45	12 "	1.25
6 " .....	.65		

FITCHBURG, MASS., U. S. A.

Spring Tempered Rules.

With Graduated Ends.

No. 18B.

All Rules are Standard Widths and Thicknesses.



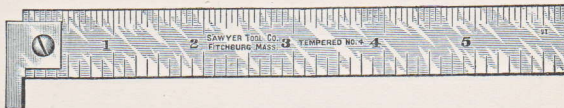
Prices, No. 18B.

2 inch	.....	\$0.25
3 "	.....	.35
4 "	.....	.45
6 "	.....	.65
9 "	.....	1.00
12 "	.....	1.25
18 "	.....	2.00
24 "	.....	2.50

These Rules in No. 4 Graduation only.

Hook Rules.

No. 26.



These are made from No. 18 rules and have a hook fastened to one end of the rule by an eccentric stud. The face of the hook being on a line with the end of the rule enables close measurements to be taken over corners or through holes where the end of the rule can not be seen.

Furnished in any Graduation.

Prices, No. 26.

6 inch	9 inch	12 inch	18 inch	24 inch	36 inch
\$1.00	\$1.40	\$1.75	\$2.50	\$3.00	\$4.75

SAWYER TOOL MFG. CO.

Flexible Spring Tempered Rules.

No. 19.



These rules are made from watch spring stock, and besides ordinary use are adapted for measuring curves or irregular surfaces. They are about $\frac{1}{2}$ inch wide, 1-100 inch thick, and are furnished in Nos. 10, 11 and 12 graduations. Graduated on one side only.

Prices, No. 19.

1 inch.....	\$0.15	6 inch.....	\$0.60
2 ".....	.20	9 ".....	.90
3 ".....	.30	12 ".....	1.15
4 ".....	.40		

Semi-Flexible Spring Tempered Rules.

No. 19A.

These rules are made from $\frac{5}{8}$ to $\frac{3}{4}$ inch wide and about 25-1000 of an inch thick. No. 4 graduation only.

Prices, No. 19A.

1 inch.....	\$0.15	6 inch.....	\$0.60	24 inch.....	\$2.50
2 ".....	.20	9 ".....	.90	36 ".....	4.00
3 ".....	.30	12 ".....	1.15	48 ".....	7.00
4 ".....	.40	18 ".....	2.00		

Furnished in end graduations if desired. For prices, see No. 18B.

Spring Tempered Desk Rules.

No. 22.



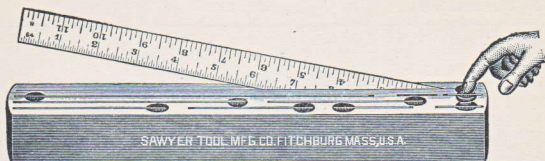
These rules are about 1 inch wide, 3-64 of an inch thick, beveled on one edge and nickel plated. The opposite edge is graduated in 16 of an inch. The beveled edge is just right for pen and ink ruling. They must be tried to be appreciated.

Prices, No. 22.

12 inch.....	\$0.75	15 inch.....	\$1.10	18 inch.....	\$1.40
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Case of Rules.

No. 30.



The case above illustrated makes a very neat and convenient receptacle for rules. It not only protects them from injury but keeps them together and easily accessible.

Each rule rests upon two crescent shaped pieces of brass at the bottom of a slot in the case, and by pressing upon the end of the rule at the finger hole, the other end is tilted up, allowing it to be easily removed.

The case is made of polished Black Walnut and is ornamental as well as useful. Its dimensions are $12\frac{1}{2}$ inches long, $1\frac{3}{4}$ inches wide, $1\frac{1}{8}$ inches high. The case is **not** sold separately.

Filled with the following rules, any graduation:

One	1 inch	Spring	Tempered	Rule.
"	2	"	"	"
"	3	"	"	"
"	4	"	"	"
"	6	"	"	"
"	9	"	"	"
"	12	"	"	"
"	4	"	Narrow	Spring Tempered Rule.

One Center Gauge.

Price, No. 30\$4.00

No. 30A.

Metric.

This is similar to our No. 30, and contains rules as follows:—

One	5 c. m.	Spring	Tempered	Rule.
"	10	"	"	"
"	15	"	"	"
"	30	"	"	"
"	15	"	Narrow	Spring Tempered Rule.
"	30	"	Flexible	Spring Tempered Rule.

One Metric Center Gauge.

Price, No. 30A\$4.25

SAWYER TOOL MFG. CO.

Spring Tempered Metric Rules.

These Rules are of standard widths and thicknesses. The following prices apply to Nos., 23A, 23C, 23E, 23G, 24A, 24B, 24D, 24E, 24F and 24G.



Prices.

5 c. m.	1.9685 inch	.....	\$0.25
10 "	3.9370 "	.....	.45
15 "	5.9055 "	.....	.65
20 "	7.8740 "	.....	.85
25 "	9.8425 "	.....	1.05
30 "	11.8110 "	.....	1.25
35 "	13.7795 "	.....	1.45
40 "	15.7480 "	.....	1.65
45 "	17.7165 "	.....	1.85
50 "	19.6850 "	.....	2.00
60 "	23.6220 "	.....	4.00
70 "	27.5590 "	.....	4.90
80 "	31.4960 "	.....	5.60
90 "	35.4330 "	.....	6.30
1 m.	39.3700 "	.....	7.00

No. 23A.

Graduated three corners in millimeters, one corner in one-half millimeters.

Flexible.

No. 23C.

These Rules are made in lengths of 5 to 35 c.m. inclusive. They are graduated on one side only; one edge in millimeters, the other in one-half millimeters.

Semi-Flexible.

No. 23E.

These Rules are made in lengths of 35 c.m. to 1 m. inclusive and are of the same widths and thicknesses as our semi-flexible rules of English measure. Graduated three corners in millimeters, one corner in one-half millimeters.

Spring Tempered Metric Narrow Rules.

No. 23G.

These Rules are graduated on one edge of each side only and are of the same width and thickness as our narrow rules of English Measure. They are in lengths of 10 to 30 c.m. inclusive. Graduated on one edge in millimeters, the other in one-half millimeters.

Spring Tempered Rules.

English and Metric.

These rules are of standard widths and thicknesses.

No. 24A.

Graduated one corner each in millimeters, one-half millimeters, 32ds and 64ths.

No. 24B.

Including lengths from 5 to 30 c. m.

Graduated on one corner each in millimeters, one-half millimeters, 64ths and 100ths.

Including lengths from 35 c. m., to one meter. Graduated, first corner, 5 c. m. graduated to $\frac{1}{2}$ m. m.; the remainder of that corner together with the second corner, to 1 m. m.; third corner, 2 inches to 64ths, the remainder to 16ths of an inch; fourth corner, 2 inches to 100ths, the remainder to 50ths of an inch.

Flexible.

These rules are about one-half of an inch wide by one 100ths of an inch thick; they are graduated on one side only in lengths of 5 to 35 c. m. inclusive.

No. 24D.

Graduated on one edge in millimeters, the other in 64ths.

No. 24E.

Graduated on one edge in one-half millimeters, the other in 100ths.

Narrow.

Graduated on one edge of each side only, 3-16ths of an inch wide, No. 18 Gauge. They are in lengths of 10 to 30 c. m. inclusive.

No. 24F.

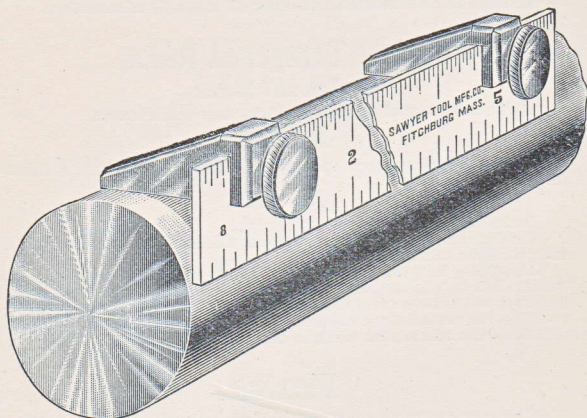
Graduated on one edge in millimeters, the other in 64ths.

No. 24G.

Graduated on one edge in millimeters, the other in 100ths.

Key Seat Rule Blocks.

No. 27.



As their name indicates these rule blocks are designed to convert an ordinary rule into a key seat-rule. They will be found very convenient for laying out key-ways, etc.

The method of attaching them is clearly shown in the above illustration. They are quickly adjusted and when not in use take up very little room in the chest. They will fit our No. 18 rules or No. 38 blades.

Price, No. 27.

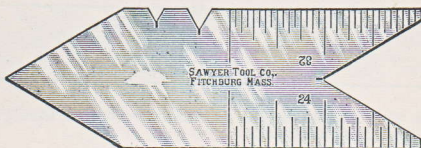
Per pair.....\$0.60

FITCHBURG, MASS., U. S. A.

Graduated Center Gauges.

Tempered.

No. 20.



Great care is used in making these gauges to have the **angles accurate**. The mechanic will find they are to be depended upon. They are graduated in 14ths, 20ths, 24ths and 32nds. The angles are 60 degrees.

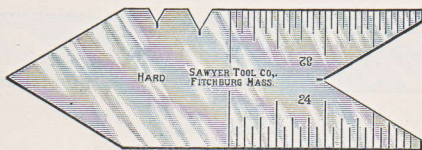
A **new feature** in these gauges is the **little slit** at the point of the angles. This provides for the burr formed in grinding an angular or threading tool and also allows an exit for dirt which is constantly accumulating and is so troublesome in the old style.

Price, No 20\$0.25

Also Furnished in **Whitworth** and **Metric**.

Improved Hardened Center Gauge.

No. 20B.



This gauge is the same as our No. 20 with the exception of its being **hardened**. It makes a much more **durable** tool.

Price, No. 20B\$0.35

Also Furnished in **Whitworth** and **Metric**.

SAWYER TOOL MFG. CO.

Steel Straight Edges.

No. 15.



Great care is used in the manufacture of our Straight Edges. You will find them all right.

Prices, No 15.

6 inches long,	1	inch wide,	$\frac{1}{10}$	inch thick		
9	"	"	1	"	"	\$0.50
12	"	"	1	"	"	.75
18	"	"	1	"	"	1.25
24	"	"	1 $\frac{1}{4}$	"	"	2.00
36	"	"	1 $\frac{1}{2}$	"	"	2.75
48	"	"	2	"	"	5.00
60	"	"	2 $\frac{1}{2}$	"	"	8.00
72	"	"	3	"	"	12.00
			3	"	"	16.00

Bevel Straight Edges.

No. 16.



Prices, No. 16.

6 inches long,	1	inch wide,	$\frac{3}{16}$	inch thick		
9	"	"	1	"	"	\$ 0.80
12	"	"	1	"	"	1.00
18	"	"	1	"	"	1.50
24	"	"	1 $\frac{1}{4}$	"	"	2.50
36	"	"	1 $\frac{1}{2}$	"	"	3.50
48	"	"	2	"	"	6.00
			2 $\frac{1}{2}$	"	"	10.00

Draughtsman's Steel Straight Edges.

Square Edge.

No. 17.



These Edges are made from a fine grade of Spring Steel; they are 3-64ths to 5-64ths inches thick, and 1½ to 3 inches wide, in proportion to their lengths. They are nicely finished, nickel plated, and provided with a hole in one end for hanging up.

Prices, No. 17.

12 inches long.....	\$0.50	42 inches long.....	\$4.00
15 " ".....	.70	48 " ".....	5.00
18 " ".....	.90	54 " ".....	6.50
24 " ".....	1.50	60 " ".....	7.50
30 " ".....	2.25	72 " ".....	9.50
36 " ".....	3.00		

Draughtsman's Steel Straight Edges.

Beveled Edge.

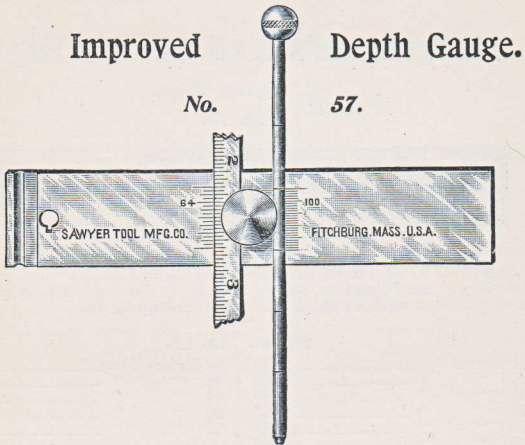
No. 17A.



Prices, No. 17A.

12 inches long.....	\$0.75	42 inches long.....	\$ 4.75
15 " ".....	1.00	48 " ".....	6.00
18 " ".....	1.25	54 " ".....	7.50
24 " ".....	2.00	60 " ".....	8.50
30 " ".....	3.00	72 " ".....	10.50
36 " ".....	3.75		

SAWYER TOOL MFG. CO.



This Gauge **combines in one tool** the advantages of the rule and the round rod and will meet the requirements of the most exacting.

The stock is graduated in 64ths and 100ths of an inch and **measurements** can be **read at a glance** by comparing the half-inch divisions on the rod with the graduations on the stock.

The rod is held against either graduation by the beveled head of the bolt, a slight turn of the nut being sufficient to hold the rod firmly in place. The same bolt clamps the rule rigidly. By moving the clamping bolt to the hole provided near the end of stock, the gauge can be used in many places where otherwise it would be impossible to use it.

In combination with the rule the tool makes a very convenient bevel.

The tool is made in two sizes of stocks, 4 inch and 6 inch.

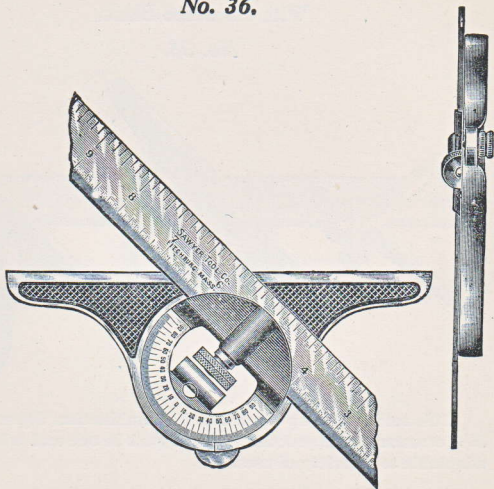
Prices, No. 57.

4 inch stock with rod and 4 inch rule.....	\$1.25
4 " " " " " 6 " "	1.50
6 " " " " " 4 " "	1.50
6 " " " " " 6 " "	1.75
10 c.m. stock with rod and 10 c.m. rule.....	1.25
10 c.m. " " " " 15 c.m. "	1.50
15 c.m. " " " " 10 c.m. "	1.50
15 c.m. " " " " 15 c.m. "	1.75

FITCHBURG, MASS., U. S. A.

Bevel Protractor.

No. 36.



This Tool is superior in accuracy, style and finish to other protractors of its class. The **polished rib** at the back adds greatly to its **strength** and at the same time to its **appearance**.

A **level**, which is **permanently attached** to the turret, will be found a valuable acquisition to the tool, forming an excellent inclinometer; it can be **used without removing the blade**.

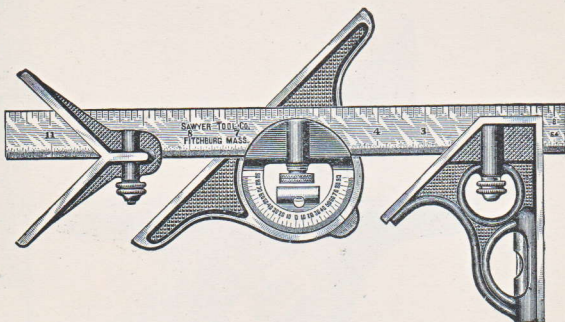
Prices, No. 36.

Protractor Head only	\$2.00	
" with 9 inch blade	2.75	20 c.m.
" " 12 " "	3.00	30 "
" " 18 " "	3.75	45 "
" " 24 " "	4.50	60 "

Combination Set.

With Hardened Blade.

No. 35.



This set is made up of our No. 38 Combination Square and No. 36 Protractor. It is practically three tools in one and will be found adaptable to a variety of uses.

Furnished in all **English** Graduations, also **Metric**, and **English and Metric**.

Prices, No. 35.

20 c.m.	9 inch	set complete	\$3.75
30 "	12 "	" " "	4 00
45 "	18 "	" " "	5.00
60 "	24 "	" " "	5.50

Metric, and English and Metric Graduations.

Squares Nos. 35, 37, 38, 38B, 43 and 44 are graduated as follows unless otherwise ordered:

Metric.

Three corners in millimeters, one corner in $\frac{1}{2}$ millimeters.

English and Metric.

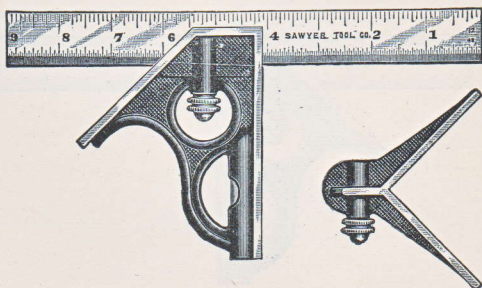
One corner each in millimeters, $\frac{1}{2}$ millimeters, 32ds and 64ths.

FITCHBURG, MASS., U. S. A.

Combination Square.

With Hardened Blade.

No. 38.



Our Combination Squares are neat in design and finish, accurate and durable; four properties which will be appreciated by every mechanic.

They are supplied **only** with our **hardened blades**, which, while very hard are tough and not liable to break, being drawn to just the proper temper.

Furnished in all **English** Graduations, also **Metric**, and **English and Metric**.

Prices, No. 38.

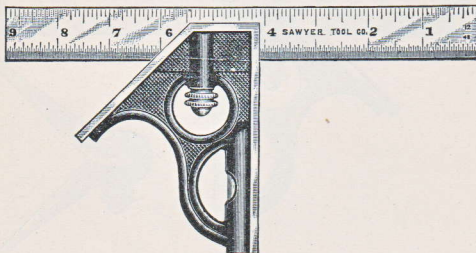
15 c.m.	6 inch	with center head	\$1.50,	without	\$1.00
20 "	9 "	" "	"	1.75,	" 1.25
30 "	12 "	" "	"	2.00,	" 1.50
45 "	18 "	" "	"	3.00,	" 2.50
60 "	24 "	" "	"	3 50,	" 3.00

The same size stock is used on the 12 inch, 18 inch and 24 inch blades.

Carpenters' Combination Square.

With Hardened Blade.

No. 38A.



This Square uses the same head as our No. 38, the blade only having different graduations, namely: 8ths, 32nds, 12ths and 48ths. Carpenters and contractors will find the above graduations very useful in planning and laying out work on a scale of feet to the inch.

No center head is furnished.

Furnished in No. 8 graduation only.

Prices, No. 38A,

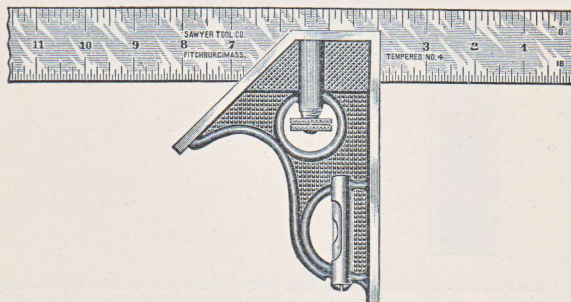
9 inch.....	\$1.25
12 "	1.50
18 "	2.50
24 "	3.00

FITCHBURG, MASS., U. S. A.

Heavy Combination Square.

With Hardened Blade.

No. 38B.



This Square is a little different in design from our No. 38. The **curvilinear rib** at the back is polished, **strengthening** and forming a neat contrast to the rest of the square. The **blade** and **stock** are much **heavier** than those of the No. 38. The blade is $1\frac{1}{2}$ inches wide by $\frac{3}{8}$ of an inch thick. The face of stock is $5\frac{1}{8}$ inches long by $\frac{3}{8}$ of an inch wide. No center head is furnished with this tool.

Furnished in all **English** graduations, also **Metric**, and **English and Metric**.

Prices, No. 38B.

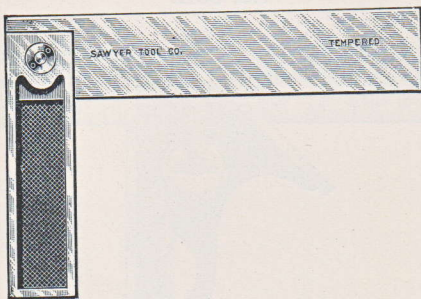
45 c.m.	18 inch.....	\$3.75
60 “	24 “	4.75

SAWYER TOOL MFG. CO.

Improved Try Square.

No. 42.

With Hardened Blade.



This Square has a stock of fine grey iron with the sunken part neatly enamelled. The **blade** is **hardened throughout** and firmly clamped to the stock by an eccentric bolt.

A perfect seat is first obtained for the blade; then the bolt is rotated by a special wrench, drawing the blade to its seat and holding it there. A nut gives additional security, drawing the bolt and holding the stock firmly against the blade.

Prices, No. 42.

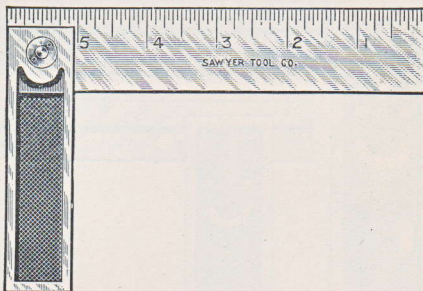
4 inch.....	\$1.25
6 ".....	1.75
8 ".....	2.00
10 ".....	2.50
12 ".....	3.00

FITCHBURG, MASS., U. S. A.

Improved Try Square.

No. 43.

With Hardened Blade.



This Square is similar to our No. 42, the only difference being the graduated blade.

Furnished in **English**, **Metric**, and **English and Metric**.

Prices, No. 43.

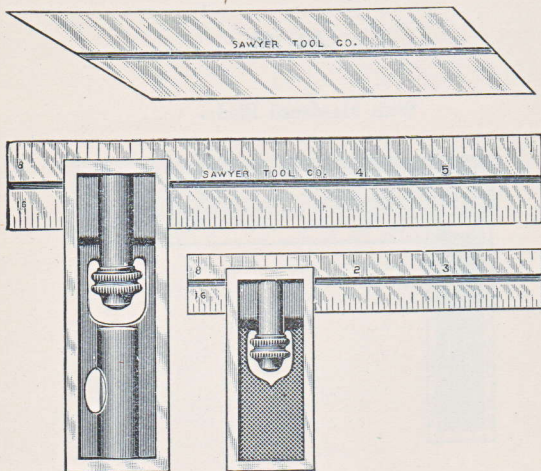
10 c.m.	4 inch	\$1.50
15 "	6 "	2.00
20 "	8 "	2.50
25 "	10 "	3.50
30 "	12 "	4.50

SAWYER TOOL MFG. CO.

Double Adjustable Square.

With Hardened Blades.

No. 44.



The stocks of our Double Adjustable Squares are made of fine grey iron, the sunken portions being enameled black, the other parts polished.

They are supplied with our **hardened blades**. The larger size has a level which will often be found convenient. A **hardened bevel blade** with ends ground to angles of 30 degrees and 45 degrees will be furnished when desired.

Furnished in **English**, **Metric**, and **English and Metric** Graduations.

Prices, No. 44.

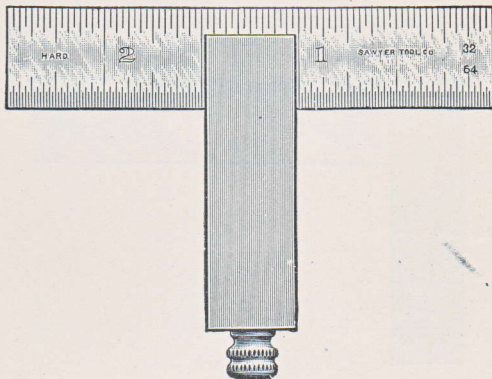
10 c.m.	4 inch	square	.....	\$1.25
15 "	6 "	"	.....	2.00
10 "	4 "	Beveled blade	.....	.40
15 "	6 "	"	.....	.50

FITCHBURG, MASS., U. S. A.

Tool Makers' Hardened Square.

With Sliding Graduated Blade.

No. 37.



This Square has the **accuracy** and **essential qualities** of the solid steel hardened squares, combined with the greater scope and adaptability of the sliding blade.

The stocks and blades of these squares being made of **hardened** steel, they will retain their **accuracy** indefinitely. They will be found invaluable for fine, close work.

When desired a **narrow** blade $\frac{1}{8}$ inch wide and 2 inches long will be furnished with the $2\frac{1}{2}$ inch square, which will be found very useful in measuring the depth of holes, etc. We also supply **beveled** blades with these squares.

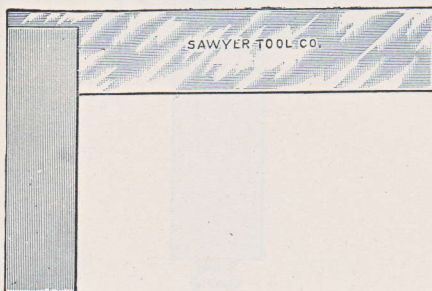
Furnished in Nos. 10 and 11 graduations; also **Metric**, and **English** and **Metric**.

Prices, No. 37.

$6\frac{1}{2}$ c.m.	$2\frac{1}{2}$ inch square.....	\$2.00
10 "	4 " "	3.00
$6\frac{1}{2}$ "	$2\frac{1}{2}$ " Beveled Blade.....	.35
10 "	4 " " " .....	.40
5 "	2 " Narrow " .....	.25

Hardened Steel Squares.

No. 40.



Our hardened Steel Squares have both the blades and stocks **hardened throughout**, giving them great permanence and wearing qualities. The utmost care is used in their manufacture and by means of our special methods and appliances for testing, we produce a tool which is **surpassed by none.**

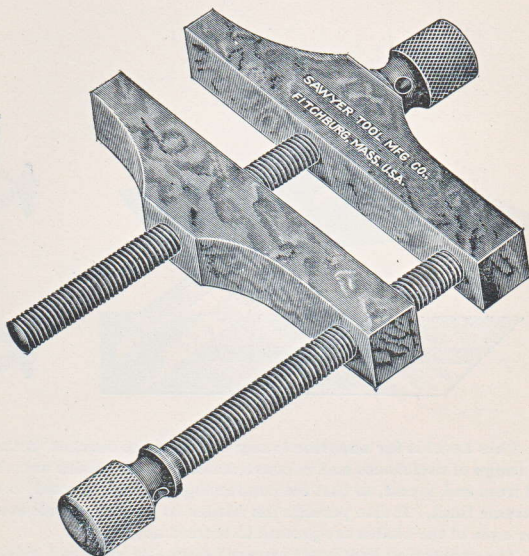
Prices, No. 40.

1 inch	\$1.50	4½ inch	\$3.50
1½ "	1.75	6 "	4.50
2 "	2.00	9 "	6.50
3 "	2.50	12 "	9.00

FITCHBURG, MASS., U. S. A.

Steel Clamps.

No. 12.



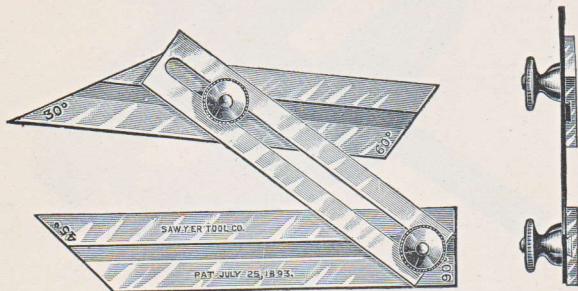
Our Clamps are made from steel and case hardened. They are **strong** where **strength** is **required** and are built to be used. The screws have a **ball** and **socket bearing** upon the jaws, thus eliminating all unnecessary strain from the threads.

Prices, No. 12.

Length of Jaws.	Opening.	
2 inch.....	1¼ inches, each.....	\$0.65
3 "	2 " " .....	.85
4 "	2¾ " "	1.00

Combination Bevel.

No. 90.



This Bevel is **far superior** to any other in the market, both in its **range** of usefulness and in construction. **Both** blades are slotted from end to end, so that the connecting link can be used to the **extreme** limit. It also permits the blades to be quickly **reversed**. The ends of the blades are ground to correct angles,

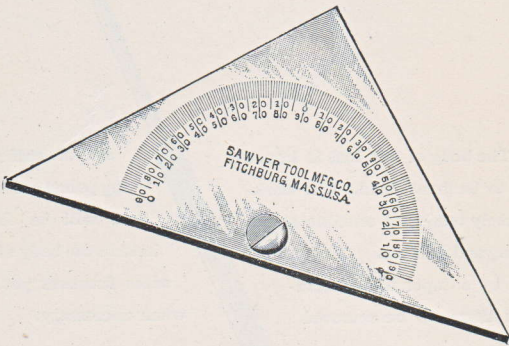
The connecting link is of tempered steel, the ends and sides of same being straight and parallel. There are many times when this will be of advantage. For transferring angles this tool is almost indispensable.

Prices, No. 90.

Tool Steel.....	\$1.75
Tool Steel Hardened.....	2.25

Angle Indicator.

No. 95.



This Tool is made from a steel plate by especially constructed and perfected machinery. It is designed to be used in connection with a rule, our Universal Bevel No. 90, or any Bevel. By its aid one can quickly and accurately transfer any angle within the scope of the tool.

The edges are ground to 45 degrees and 90 degrees which gives to the tool the **additional value** of a **square** and **mitre**.

Price, No. 95.....\$1.50

Scriber.

No. 80.

The body of this tool is knurled size to be firmly held. The mark- of finely tempered crucible steel strong and durable. They are tool by a taper fit which in- lows them to be removed

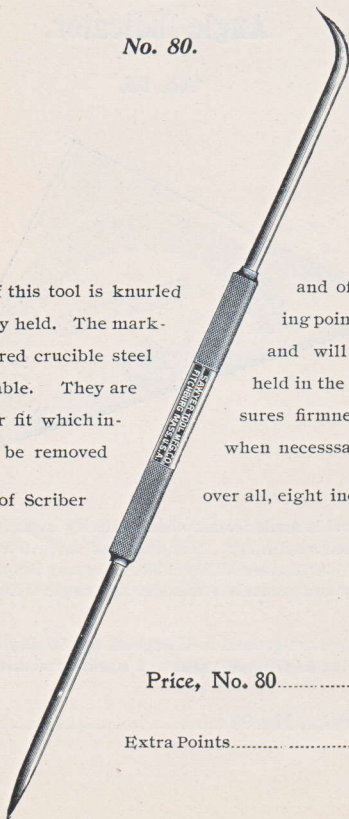
and of sufficient ing points are made and will be found held in the body of the sures firmness yet al- when necessary.

Length of Scriber

over all, eight inches.

Price, No. 80.....\$0.35

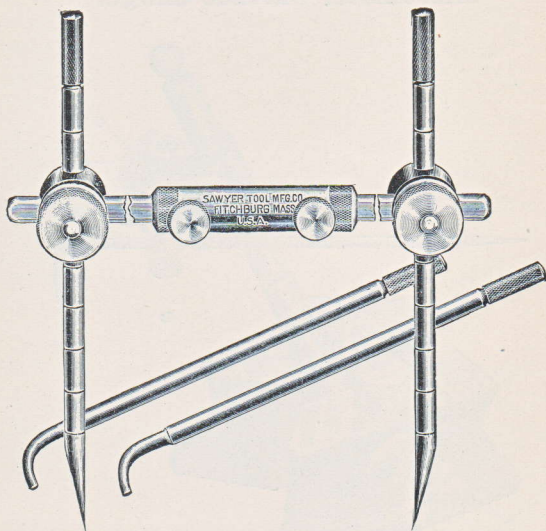
Extra Points.....\$0.10



FITCHBURG, MASS., U. S. A.

Extension Steel Beam Trammels.

No. 115.



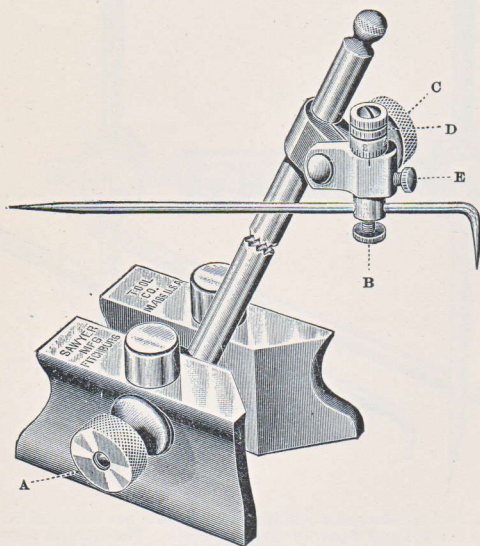
This Tool consists of a 5-16 inch round steel bar flattened on one side, two clamps and a pair of divider points. The clamps, through which pass the divider points, slide upon the bar and by a slight turn of the knurled nut, grip the steel bar and hold the points firmly in place.

Couplings are furnished by means of which two or more bars can be joined together, thereby giving greater scope to the tool. A fine adjustment is obtained by rotating the divider points, which are slightly eccentric. The bars are made in sections 14 inches long.

Prices, No. 115.

One section with divider points.....	\$2.25
Extra bars including coupling, each .....	.40
Caliper points per pair .....	.50
Eccentric needle points .....	.35
One set of four balls and holder	1.25

Micrometer Surface Gauge.



Prices, No. 99.

Tool makers' gauge with hardened steel base.....\$3.00

No. 100.

Grey iron base, 6 inch and 10 inch spindles..... 2.75

No. 101.

Grey iron base, 12 inch and 18 inch spindles..... 3.50

Micrometer Surface Gauge.

We know you will find embodied in this tool all the essential qualities a mechanic can desire in a Surface Gauge. It would be a hard matter to design a gauge which would be more universal in its scope.

The spindle has a movement of **three-fourths swing** around the base, and can be clamped in any desired position by the clamp nut A at the side.

You will see at a glance that the **V Slot** in the end of the gauge admits of its being used on a shaft, spindle or any round body. By inverting the base you have a gauge for aligning work with any parallel edge such as the edge of a planer bed, slots of a planer or miller, the V's of a lathe, etc.

The needle is held firmly in any position by means of screw B.

The adjusting mechanism, like any other Surface Gauge, can be raised and lowered on the spindle and clamped in any position by means of clamp bolt C.

The needle can be raised or lowered by means of our new **micrometer adjustment D**. By means of this new adjustment we get a **parallel motion** vertically, horizontally or in other desired direction, entirely doing away with the old-fashioned swinging motion which is so objectionable. The adjustment may be locked solidly or any desired amount of friction placed on it by means of screw E.

This gauge is made in three sizes.

Beam Caliper or Planer Gauge.

No. 110.



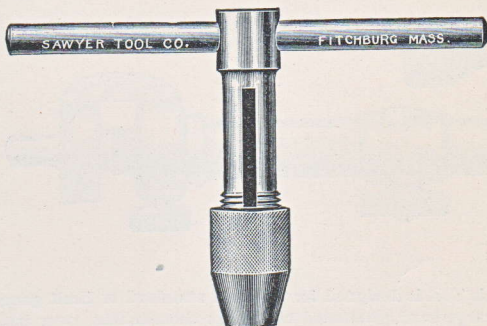
This Tool consists of a plain bar with two sliding heads. The heads are held in position by set screws and can be set to either outside or inside standard gauge by simply reversing on the bar. It is made of tool steel and the **ends** of the **heads** are **hardened**.

Prices, No. 110.

With 14 inch bar.....	\$2.25
With 20 " "	3.00

Tap and Reamer Wrench.

No. 132.



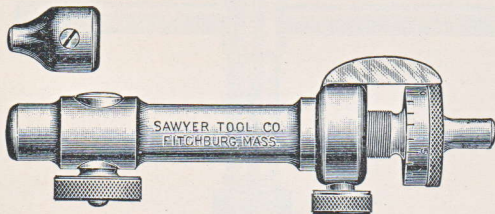
This Wrench is very useful for holding taps, drills, reamers, etc. It has a compact chuck at one end and a **center** at the other for use in a lathe. The ends of the **shell** and **jaws** are **hardened**. Made in two sizes.

Prices, No. 132.

No. 1.	Holds taps up to and including $\frac{1}{4}$ inch.....	\$0.50
No. 2.	Holds taps up to and including $\frac{3}{8}$ inch.....	1.00

Micrometer Caliper Gauge.

No. 141.



This Tool is designed for use as a standard or limit gauge; it has a large head, graduated to read in thousandths, over which a tempered steel blade projects to form a reading point.

A friction screw having a brass anvil hobbled to fit the thread of the micrometer head is provided which locks it securely. At the other end of the tool is a draw bolt which holds firmly the extension rods. No extension rods are supplied with the tool, as most shops have $\frac{1}{4}$ inch screw stock on hand which can be used. A hardened steel cap is supplied to go on the end of the rod.

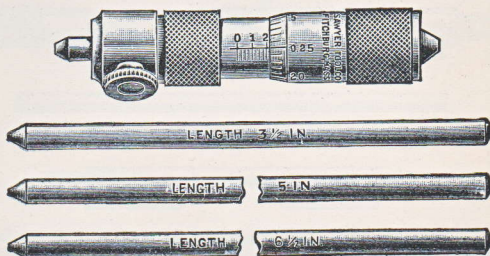
Prices, No. 141.

Micrometer with one cap.....	\$2.00
Extra caps, each.....	.25

FITCHBURG, MASS., U. S. A.

Micrometer Caliper Gauge.

No. 142.



This Tool is designed for close internal measurements by thousandths of an inch, where a definite distance in inches is not essential; it has $\frac{1}{4}$ inch movement of the screw and with the five rods measures from $2\frac{1}{2}$ to 10 inches. The **ends** of anvil and rods are **hardened**. The rods are .175 of an inch in diameter, and are held **firmly** in position by a draw bolt.

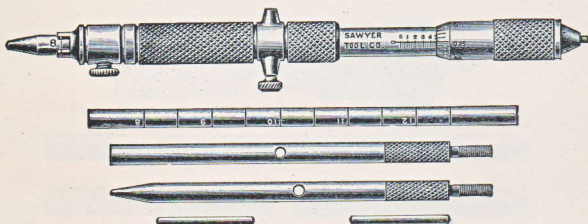
Prices, No. 142.

Micrometer with five Rods.....\$2.00
Extra Rods, two cents per inch,

Inside Micrometer.

No. 140.

Telescoping.



This Micrometer is made entirely of steel. The graduated thimble is provided with a **hardened** adjustable anvil and the ends of the pointed sections are also hardened.

An important feature of this Tool is the **telescoping arrangement** by means of which it can be shortened about one inch after obtaining a setting, withdrawn and brought back to its original position **without variation**.

The tool is provided with standard 5 inch sections which can be screwed together forming any desired length. Its capacity beyond 8 inches is limited only by the number of sections used. A **draw bolt** holds these rods **firmly** in the body of the tool.

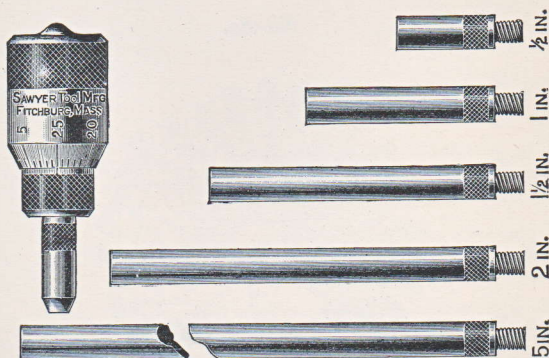
As put up, the tool consists of the micrometer, two graduated, one intermediate, one pointed rod and two pin wrenches, as shown in the illustration. With these rods it will measure 23 inches.

Prices, No. 140.

Micrometer, complete.....	\$4.00
Extra five inch rods, each .....	.25

New Inside Micrometer.

No. 144.



In this Micrometer, the above cut of which is full size, we have the **smallest** inside micrometer made. While compactness has been our aim, not one of the desirable qualities of an inside micrometer has been left out. There have been however, **valuable features** added which are not found in any other inside micrometer.

The screw has a movement of one-half inch, with adjustment for wear, giving a smooth running thread at all times. The **hardened** anvil in the end of the thimble is also **adjustable** for wear, which naturally takes place in a tool of this kind.

The rods are accurately made to standard lengths and are screwed into the body of the instrument, thus insuring **firmness, accuracy** and freedom from slipping. By means of the six rods supplied it will measure by thousandths of an inch from $1\frac{1}{2}$ inches to 12 inches. With extra 5 inch rods the capacity of the tool can be increased.

Prices, No. 144.

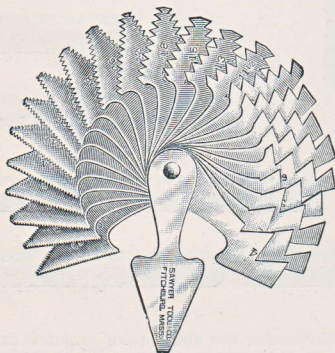
Micrometer to measure from $1\frac{1}{2}$ to 12 inches.....	\$4.00
Extra 5 inch rods, each.....	.50
Morocco case, extra.....	1.00

SAWYER TOOL MFG. CO.

Patent Screw Pitch Gauge.

V Thread.

No. 84.



In this Gauge we have combined all the desirable qualities of a pitch gauge. The **tapered form** of the blades allow them to be used in the smallest holes and they are stiff and not easily bent.

The desired pitch can readily be found, and when in use the other blades remain out of the way in the case. It is very **compact** and contains the following pitches: 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60.

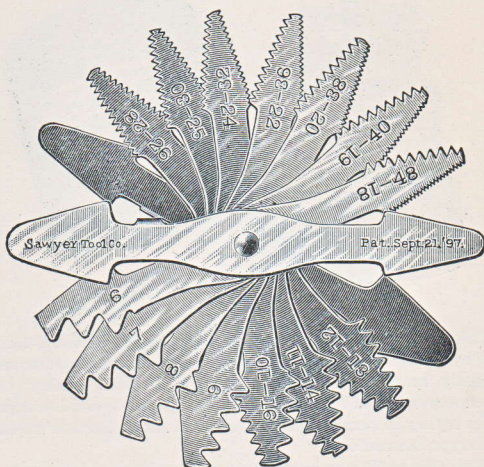
Price, No. 84.....\$1.00

FITCHBURG, MASS., U. S. A.

Patent Screw Pitch Gauge.

Whitworth Thread.

No. 86.



This Gauge has the blades pivoted in the middle with the pitches cut on the tapered edges of either end.

The shape of the blades of this gauge is such that they can be used in very small holes. It is compact and has the following pitches: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 38, 40, 48.

Price, No. 86.....\$1 00

SAWYER TOOL MFG. CO.

Marking Outfit.

No. 3.



This Marking Outfit is put up to meet the demand for something by which tools of all shapes and sizes, either hard or soft, can be neatly marked **without injury** to the tool. Every year an immense number of tools and steel stamps are spoiled or injured by parties trying to stamp their names on stock as hard or harder than the stamps themselves.

With this outfit any person who can write or print can turn out artistic work, if he will carefully follow the directions.

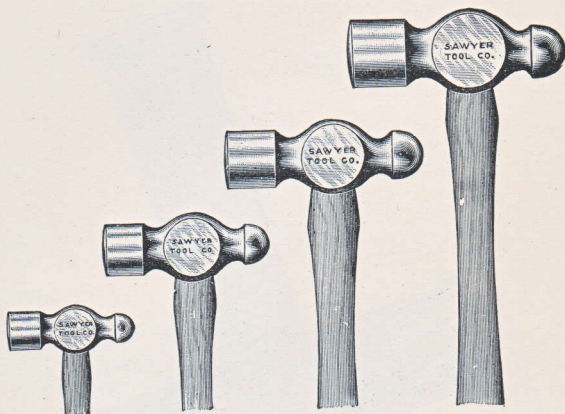
The outfit consists of a jointed steel scriber, one bottle of varnish, one bottle of etching fluid, one bottle of cleaning fluid, a camel's hair brush and directions for using, all in a neat wooden box.

Price, No. 3.....\$1.00

FITCHBURG, MASS., U. S. A.

Machinists' Hammers.

No. 130.



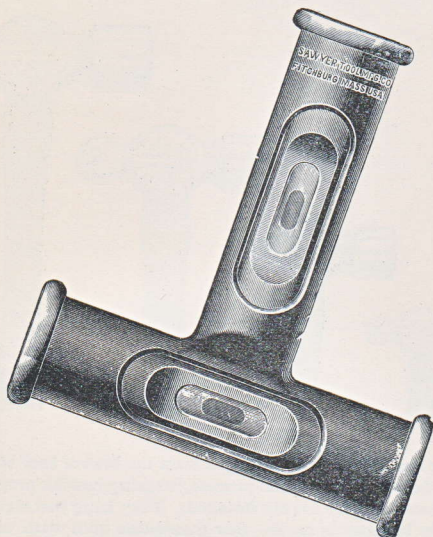
Our hammers are **drop forged** from the **best of tool steel**; they are hardened by our special process, insuring just the proper degree of hardness and are **highly finished**. They hang just right; in fact, no better hammer is made. **Our guarantee** goes with each hammer. They are made in four sizes.

Prices, No. 130.

No. 1.	Weight without handle, about	$\frac{1}{4}$ pound	\$1.00
" 2.	" " "	$\frac{3}{4}$ "	1.40
" 3.	" " "	$1\frac{1}{4}$ "	1.70
" 4.	" " "	$1\frac{1}{2}$ "	2.00

Cross Level.

No. 5.



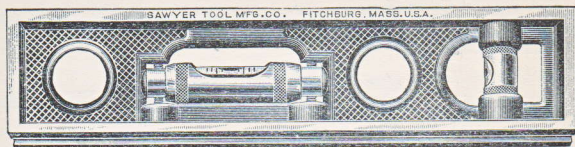
The above cut represents well our new cross level.
It is made of iron nicely enamelled with ends polished.
An invaluable tool for quickly levelling up work.
Size $2\frac{1}{2}$ inches by 3 inches by $\frac{5}{8}$ ths inch.

Price, No. 5\$0.65

FITCHBURG, MASS., U. S. A.

Adjustable Bench Levels.

No. 7.



In introducing our line of adjustable levels with **ground** and **graduated** vials, it has been our aim to give to the mechanic **full value** for his money, putting within the reach of all a high class article.

The frame of the level is made from a fine quality of grey iron **accurately ground** and neatly enamelled. It has a longitudinal groove in its base which permits its use upon shafting and similar round bodies.

We wish to call especial attention to the vials used in these levels, they are made from straight glass tubing, **ground barrel shaped** on the inside by a patented process, thus insuring **equal accuracy** whether the level is upright or tipped to one side.

Both level and plumb vials are covered by revolving, nickel plated shields which protect them, when not in use, from danger of breakage and dust.

The adjustment is **simple** and **positive**.

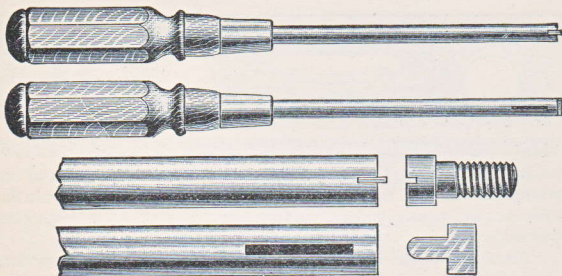
Furnished only with ground and graduated vials.

Prices, No. 7.

6 inch.....	\$3.00
9 "	3.50
12 "	4.25
18 "	5.50
24 "	7.00

Samson Screw Drivers.

No. 125.



This Screw Driver is made upon right principles. The square end of the shank supports the screw and keeps it from wobbling. The **sides** of the **blade** being **parallel** it **fits** the slot in the screw. It will not jump out or mar the slot.

When a blade becomes worn out or broken, from too much strain, it can be **quickly replaced** by a new one, making the screw driver as good as new. The shanks and blades are made of the best steel properly tempered. The handles are of polished rock maple.

For assembling work it has no equal.

A drive out key and extra blades accompany each tool.

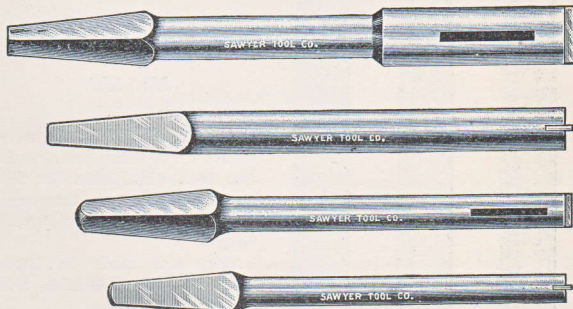
To replace blades: rest the end of the shank on one jaw of a vise and against the other, insert key in slot and drive out old part of blade. A new one can then be inserted.

For prices see opposite page.

FITCHBURG, MASS., U. S. A.

Samson Screw Driver Bits.

No. 126.



These drivers are equally desirable for bit stock use and are very powerful and sure.

Prices, No. 125.

With Rock Maple Handles.

Diameter.	Length of Shank.	Each.	Per dozen.
3-16 inch.....	2 inches.....	\$0.25.....	\$3.00
1-4 ".....	3½ ".....	.35.....	4.20
5-16 ".....	5¾ ".....	.45.....	5.40
3-8 ".....	7½ ".....	.55.....	6.60
1-2 ".....	9 ".....	.65.....	7.80

Prices, No. 126.

Samson Screw Driver Bits.

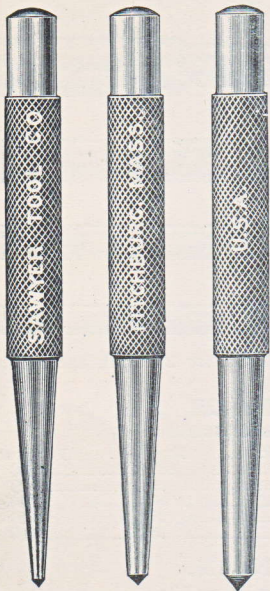
Diameter.	Length of Shank.	Each.	Per dozen.
1-4 inch.....	4 inches.....	\$0.25.....	\$3.00
5-16 ".....	4¼ ".....	.30.....	3.60
3-8 ".....	4½ ".....	.35.....	4.20
1-2 ".....	4¾ ".....	.40.....	4.80

Three extra blades and one drive-out key furnished with each driver.

Extra Blades.

3-16 inch.....	per dozen, \$0.12	3-8 inch.....	per dozen, \$0.20
1-4 ".....	.15	1-2 ".....	.25
5-16 ".....	.18		

Center Punches.



No. 150.

The **steel** used in the construction of these punches is the **best obtainable** for the purpose. They are tempered to stand up under severe usage.

They are made in three sizes of points: 5-64 inch, 5-32 inch and 13-64 inch.

Prices, No. 150.

Each.....	\$0.20
Per dozen.....	2.00

Nail Sets.

No. 152.

Our Nail Sets are similar in design and finish and receive the same treatment as our center punches, the only difference being in the cupped ends. Made in four sizes: 5-64 inch, 3-32 inch, 9-64 inch, 5-32 inch.

For prices see opposite page.

FITCHBURG, MASS., U. S. A.

Nail Sets.

No. 152.



Prices, No. 152.

Each	\$0.20
Per Dozen	2.00

Sheet Metal or Flat Faced Punches.

No. 151.



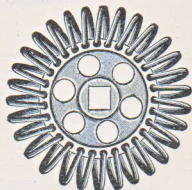
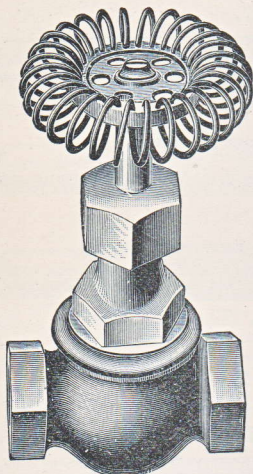
These punches are made from the same steel as our center punches, and receive the same careful attention.

Made in three sizes: 5-64 inch, 5-32 inch and 13-64 inch.

Prices, No. 151.

Each	\$0.20
Per Dozen	2.00

The Prouty Valve Wheel.



The Prouty Wire Valve Wheels **never** get hot like iron and never warp and **split off** like wood. The combination of the coiled wire and the hub plates is such that it gives a strong, rigid wheel, a **good grasping surface** for wet or greasy hands, and presents a **pleasing appearance** to the eye.

The cores of the wheels up to and including the $1\frac{1}{4}$ inch size, are made of brass, the larger sizes of malleable iron. They are **nickel plated** and polished and will fit all sizes and makes of valves.

Prices.

Size Valve, inches...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
Outside diameter of wheel, inches...	2	2	$2\frac{3}{8}$	$2\frac{5}{8}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$5\frac{1}{4}$	$5\frac{3}{4}$	$6\frac{3}{4}$	$7\frac{1}{2}$
Price, each.....	\$0.12	.12	.12	.14	.16	.20	.25	.30	.35	.40	.45	.55	.65

We also make the wheels in the following sizes with centers punched from a flat steel plate, polished and nickel plated.

Size Valve, inches...	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Outside diameter of wheel, inches...	$1\frac{1}{2}$	2	2	$2\frac{3}{8}$
Price, each.....	\$0.12	.12	.12	.12

Prices of Parts of Tools.

Combination Squares and Sets, Nos. 35, 38 and 38A.

Size.	Hard Blade Price.	Stock Price.	Center Head Price.	Metric.
6 inch	\$0.75	\$0.50	\$0.50	15 c.m.
9 "	1.00	.50	.50	20 "
12 "	1.25	.75	.50	30 "
18 "	2.00	.75	.50	50 "
24 "	2.75	.75	.50	60 "

Bolts or Nuts for above, each, Five Cents.

Protractor.

Blade for, see above list.

Bolts or Nuts, each, Five Cents.

Combination Squares, No. 38B.

Size.	Hard Blade Price.	Stock Price.	Metric.
18 inch.	\$2.50	\$1.50	50 c.m.
24 "	3.50	1.50	60 "

Bolts or Nuts for above, each, Ten Cents.

Double Adjustable Square, No. 44.

Size.	Hard Blade Price.	Beam Price.	Bevel Blade Price.	Metric.
4 Inch	\$0.50	\$0.75	\$0.40	10 c.m.
6 "	.75	1.25	.50	15 "

Bolts or Nuts for above, each, Five Cents.

SAWYER TOOL MFG. CO.

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Comb. Square, Carpenters'..	38A	20
Combination Square Heavy..	38B	21
Double Adjustable.....	44	24
Hardened Steel	40	26
Toolmakers'	37	25
Try	42,43	22,23
Tap Wrench.....	132	35
Trammel, Beam	115	31
Valve Wheels, Prouty.....		50

Foreign Representatives

Who carry a stock of our goods for immediate shipment to
the trade,

LONDON, ENGLAND—C. W. BURTON, GRIFFITHS
& Co., Ludgate Square, Ludgate Hill.

GLASGOW, SCOTLAND—C. W. BURTON, GRIFFITHS
& Co., 57 & 59 Finnieston Street.

DUSSELDORF, GERMANY—DE FRIES & CIE., Act.
Ges.

BERLIN, GERMANY—DE FRIES & CIE., Act. Ges.,
Klosterstrasse, 13, 15.

STUTTGART, GERMANY—DE FRIES & CIE., Act.
Ges., Kronprinzenstrasse, 32.

WIEN, AUSTRIA-HUNGARY—DE FRIES & CIE., Act.
Ges., Eschbachgasse, 9.

BARCELONA, SPAIN—DE FRIES & CIE., Act. Ges.,
Paseo de Gracia, 98.

MAILAND, ITALY—DE FRIES ECI., Via Principe, Um-
berto, 36.

— *Lieber's Code Used.* —

We are pleased at all times to loan our customers
electrotypes for advertising and cata-
log purposes.

